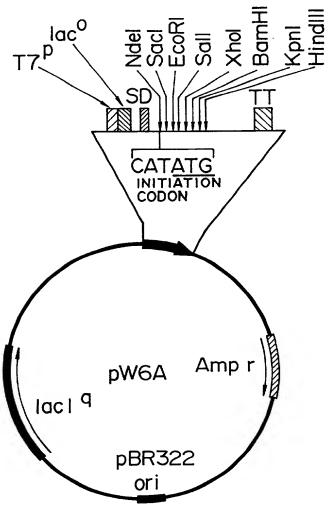
F | G. | DETAILED DIAGRAM OF EXPRESSION VECTOR pW6A





T7^p : -

: T7 PROMOTER

lac ⁰

: lac operater

SD

: SHINE-DALGARNO SEQUENCE

TT

: T7 TRANSCRIPTIONAL TERMINATOR

Amp r

: B LACTAMASE

lac I q

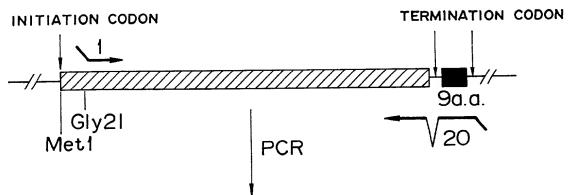
: lac repressor

pBR322 ori

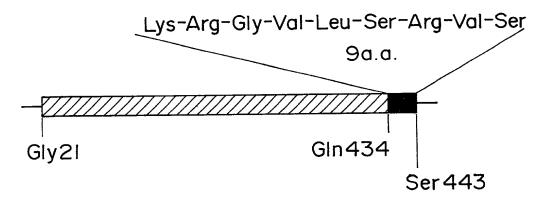
: REPLICATION ORIGIN

F I G. 2
PREPARATION OF GENE ENCODING 47K ANTIGEN

GENE ENCODING 47K ANTIGEN ON GENOMIC DNA

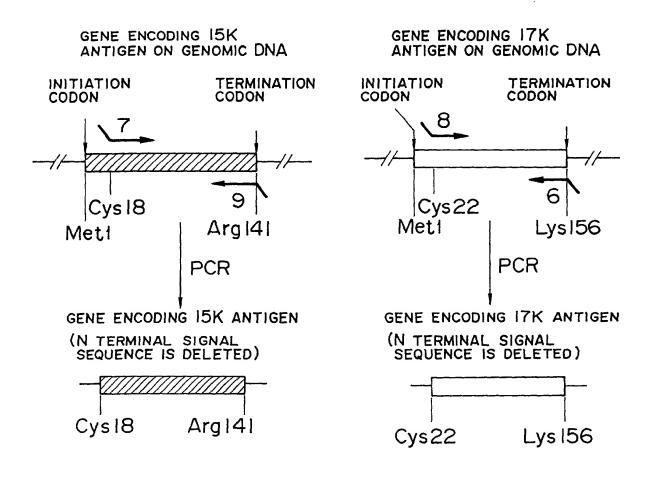


GENE ENCODING 47K ANTIGEN WITH C TERMINAL EXTRA SEQUENCE (N TERMINAL SIGNAL SEQUENCE IS DELETED)



: PRIMER

FIG. 3 PREPARATION OF GENE ENCODING 15K ANTIGEN AND 17K ANTIGEN



PRIMER

F I G. 4 DETAILED DIAGRAM OF EXPRESSION VECTOR FOR TWO-ANTIGEN FUSED ANTIGEN INITIATION CODON pW6A-15-17 TERMINATION CODON PO SD 15ĸ l7κ pW6A-15-47 Ndel BamHI TERMINATION CODON CODON 15_K 47ĸ Sall BamHI Ndel pW6A-47-17 TERMINATION CODON __ INITIATION CODON 47_K 7ĸ Sall Ndel BamHl pW6A-47-15 INITIATION CODON TERMINATION CODON PO SD 15ĸ Sall TERMINATION Ndel BamHi INITIATION CODON pW6A-17-15 CODON 17ĸ 15ĸ 1 Ndel Xhol Sall BamHI pW6A-17-47 INITIATION CODON TERMINATION CODON PO SD Ndel Xhol Sall BamHI Amp

5/11

F | G. 5

DETAILED DIAGRAM OF EXPRESSION VECTOR FOR THREE-ANTIGEN FUSED ANTIGEN

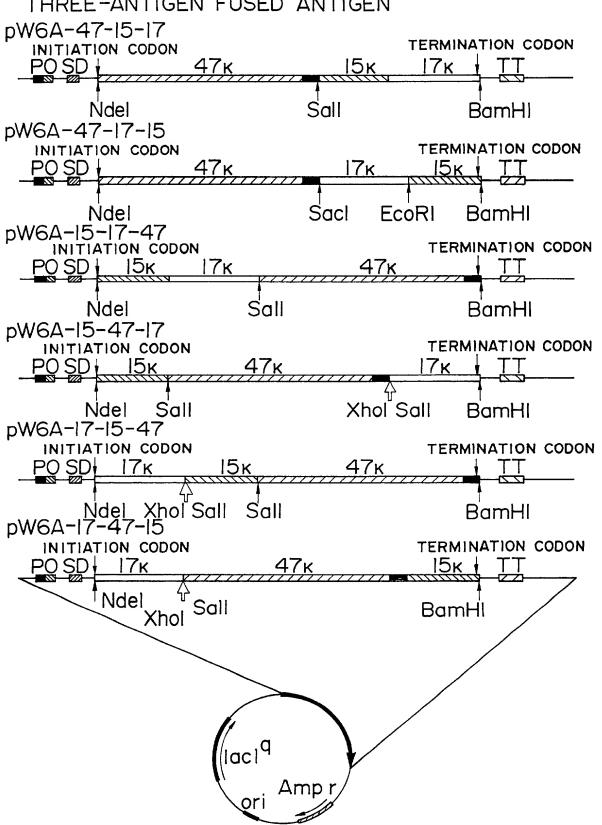
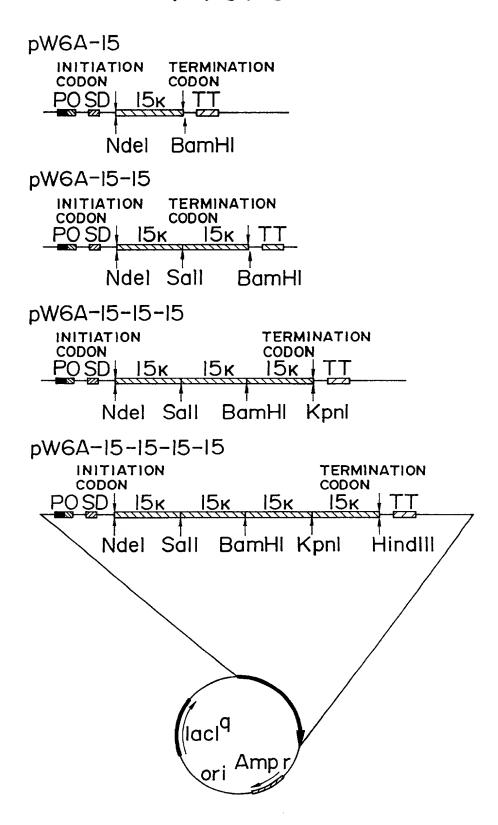
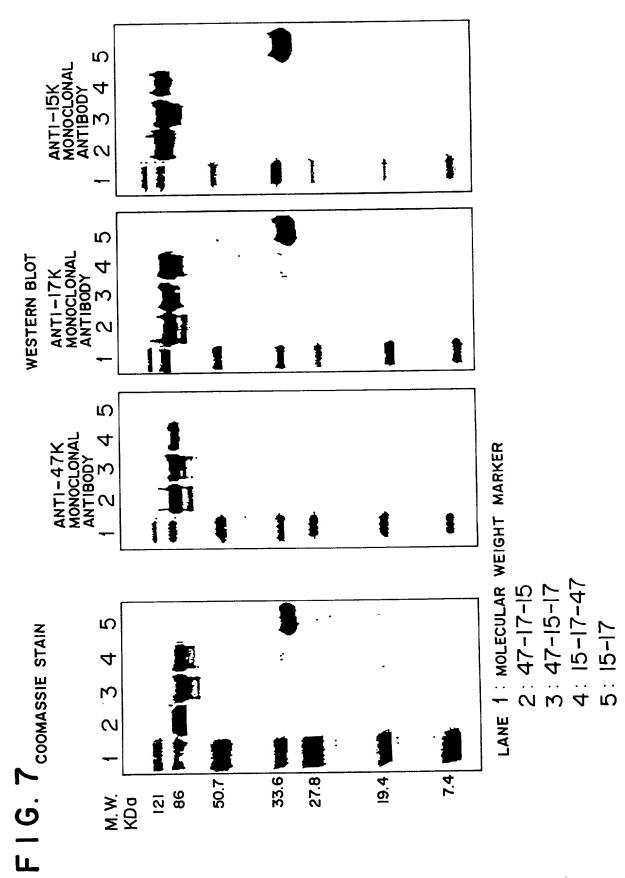
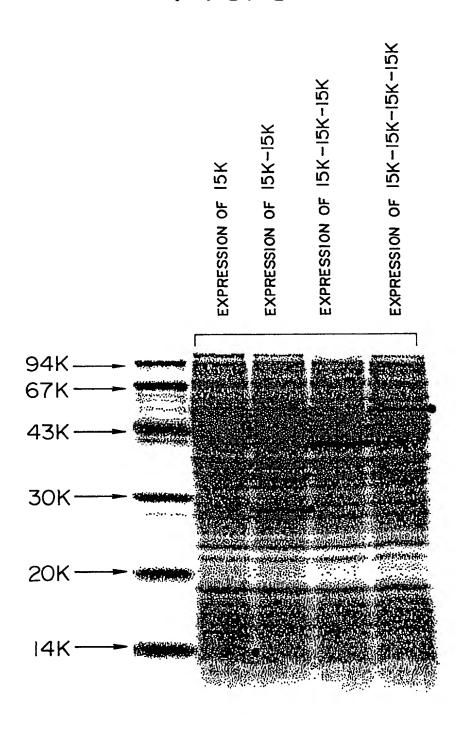


FIG. 6





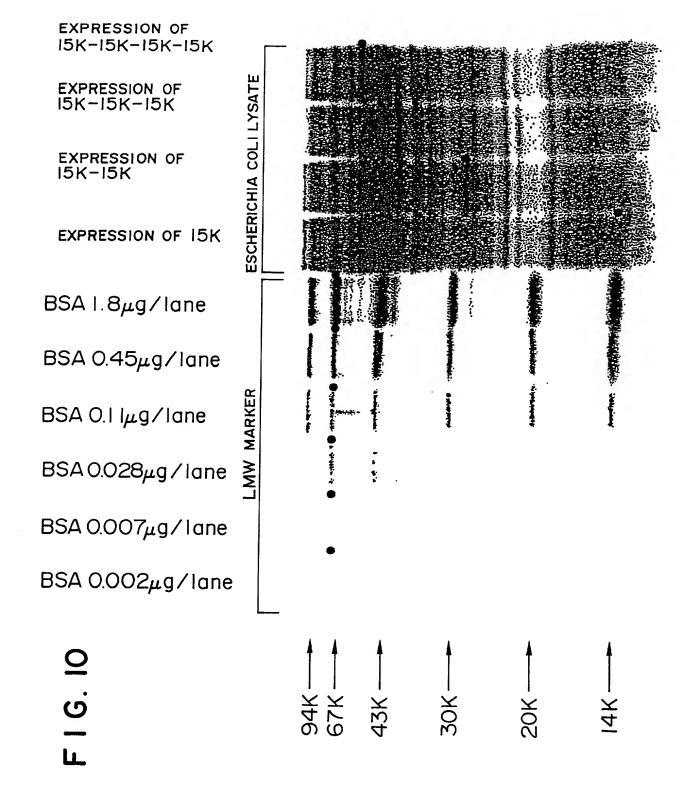
F I G. 8



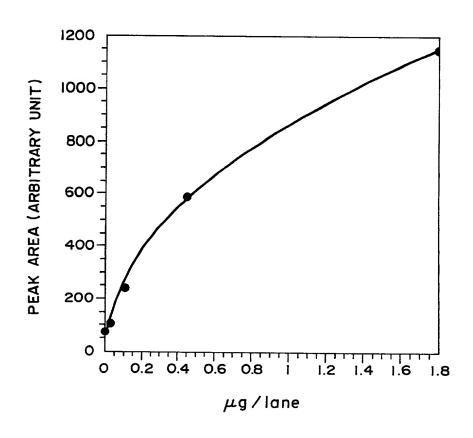
The strategies with the strategy of the strate

F I G. 9

	EXPRESSION OF 15K	EXPRESSION OF 15K-15K	EXPRESSION OF 15K-15K-15K	EXPRESSION OF 15K-15K-15K	
123K — -				·	• .
85K —— 50K ——			*		• • • • • • • • • • • • • • • • • • • •
					••••
33K —	•				• • •
29K ——			No.		•
		. • • • • •		· · · · · · · · · · · · · · · · · · ·	••
19K ——					· .·
8K ——		•	\$ 2/3		



F | G. | I



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